

Water Heater

Thermo Top Evo Parking Heater

E1 00 0258

Installation Documentation Mitsubishi Outlander

Validity

Manufacturer	Model	Туре	Model year	EG BE No. / ABE
Mitsubishi	Outlander	CWO (GF0)	From model year 2013	e1 * 2001 / 116 * 0406 *
Mitsubishi	Outlander PHEV	CWO (GG0)	From model year 2014	e1 * 2001 / 116 * 0406 *

Motorisation	Fuel	Emission standard	Transmission type	Output in kW	Displacement in cm ³	Engine code
2.0 MIVEC	Petrol	Euro 5b	SG	110	1998	4J11
2.0 MIVEC	Petrol	Euro 5b	AG	110	1998	4J11
2.0 MIVEC PHEV	Petrol	Euro 6	AG	89	1998	4B11
2.4 MIVEC PHEV	Petrol	Euro 6d-TEMP	AG	99	2360	4B12

SG = manual transmission

AG = automatic transmission

Verified equipment variants: Automatic air-conditioning Front fog lights Headlight washer system

- Not verified: Passenger compartment monitoring
- **Exclusion:** Electrical OE parking heater in case of 'PLUS' and 'TOP' equipment

Total installation time: approx. 8.5 hours

Note:

Only experts in high-voltage systems for vehicles should be authorised to carry out independent work on hybrid vehicles! High-voltage systems must be taken out of operation, secured and reactivated according to the manufacturer's instructions!

Mitsubishi Outlander

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Necessary Components

- · Basic delivery scope of Thermo Top Evo based on price list
- Installation kit for Mitsubishi Outlander MY 2013 / 2.0 PHEV MY 2013 / 2.4 PHEV MY 2018: 1323662C
- · Control element in accordance with price list and upon consultation with end customer
- In case of Telestart, indicator lamp in accordance with price list and in consultation with end customer

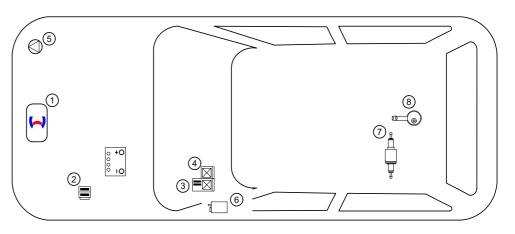
Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about 1/4 full.
- The installation location, in case of the MultiControl CAR Option, should be determined in coordination with the end customer!
- The installation location of the push button in case of Telestart or ThermoCall should be confirmed with the end customer.
- Depending on the space required and the vehicle manufacturer's instructions, we recommend the use of a vehicle battery with a higher electrical capacity.

Installation Overview

Legend:

- 1. Heater
- 2. Engine compartment fuse holder
- 3. Passenger compartment relay and fuse holder
- 4. PWM GW
- 5. Circulating pump
- 6. Telestart / ThermoCall receiver
- 7. Metering pump
- 8. FuelFix



Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting the vehicle-specific components, the heater specific installation time and all other times required for the system integration and initial start-up of the heater. The total installation time may vary for vehicle equipment other than provided.

Information on Operating and Installation Instructions

1 Important information (not complete)

1.1 Installation and repair

The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.



To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.

Installation and repair may ONLY be carried out by persons trained and certified in a Webasto training course. NEVER try to install or repair Webasto heating or cooling systems if you have not completed a Webasto training course, you do not have the necessary technical skills and you do not have the technical documentation, tools and equipment available to ensure that you can complete the installation and repair work properly.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

1.2 Operation

To ensure safe operation, we recommend having the heater checked every two years by an authorised Webasto dealer, especially when used over a long period and/or under extreme environmental conditions.

Do not operate the heater in closed rooms due to the danger of poisoning and suffocation.

Always switch off the heater before refuelling.

The heater may only be used with the prescribed fuel diesel (DIN EN 590) or petrol (DIN EN 228).

The heater may not be cleaned with a high-pressure cleaner.

1.3 Please note

ALWAYS follow all Webasto installation and operating instructions and observe all warnings.

To become familiar with and understand all functions and properties of the heater, the operating instructions must be read carefully and observed at all times.

For proper, safe installation and repair work, the installation instructions with all warnings and safety information must be carefully read and observed at all times. Please always contact a workshop authorised by Webasto for all installation and repair work.

Important

Webasto shall assume no liability for defects, damage and injuries resulting from a failure to observe the installation, repair and operating instructions of the information contained in them.

This liability exclusion particularly applies to improper installations and repairs, installations and repairs by untrained persons or in the case of a failure to use genuine spare parts.

The liability due to culpable disregard to life, limb or health and due to damage or injuries caused by a wilful or reckless breach of duty remain unaffected, as does the obligatory product liability.

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses or original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and tie back. Connectors on electronic components must audibly snap into place during assembly.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components!

The initial start-up is to be executed with the Webasto Thermo Test Diagnosis.

When installing a programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted.

2 Statutory regulations governing installation

Guidelines	Thermo Top Evo
Heating Directive ECE R122	E1 00 0258
EMC Directive ECE R10	E1 04 5627

Note

The regulations of these guidelines are binding in the scope of the Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries in which there are no special regulations.

Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

Note

The heater is licensed in accordance with paragraph 19, section 3, No. 2b of the StV-ZO (German Road Traffic Licensing Authority).

2.1 Excerpt from ECE regulation 122 (heating system) paragraph 5 for the installation of the heater

Beginning of excerpt.

ANNEX VII

REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

1. GENERAL REQUIREMENTS

1.7.1. A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.

VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

2.

- 2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.
- 2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

2.2. Positioning of heater

- 2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.
- 2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.
- 2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be used.
- 2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.
- 2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

2.3. Fuel supply

- 2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage.
- 2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled.
- 2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

2.4. Exhaust system

2.4.1. The exhaust outlet must be located so as to prevent emissions from entering the vehicle through ventilators, heated air inlets or opening windows.

2.5. Combustion air inlet

2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.

2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

2.6. Heating air inlet

- 2.6.1. The heating air supply may be fresh or recirculated air and must be drawn from a clean area not likely to be contaminated by exhaust fumes emitted either by the propulsion engine, the combustion heater or any other vehicle source.
- 2.6.2. The inlet duct must be protected by mesh or other suitable means.

2.7. Heating air outlet

- 2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched.
- 2.7.2. The air outlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

End of excerpt.

In multilingual versions the German language is binding.

Mitsubishi Outlander

Information on Validity

This installation documentation applies to Mitsubishi Outlander - vehicles - for validity, see page 1 - from model year 2013 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to this installation documentation.

Vehicle and engine types, equipment variants and other specifications not listed in this installation documentation have not been tested. However, installation according to this installation documentation may be possible.

Technical Information

Special Tools

- · Hose clamp pliers for auto-tightening hose clamps
- Hose clamp pliers for Clic hose clamps of type W
- Hose clamping pliers
- Automatic wire stripper, 0.2 6mm²
- Crimping pliers for male connector, 0.14 6mm²
- Crimping pliers for cable lug, 0.5 10mm²
- Crimping pliers for connector, 0.25 6mm²
- Torque wrench for 2.0 10 Nm
- · Metric thread-setter kit
- Deep-hole marker
- · Webasto Thermo Test Diagnosis with current software

Dimensions

• All dimensions are in mm.

Tightening torque values

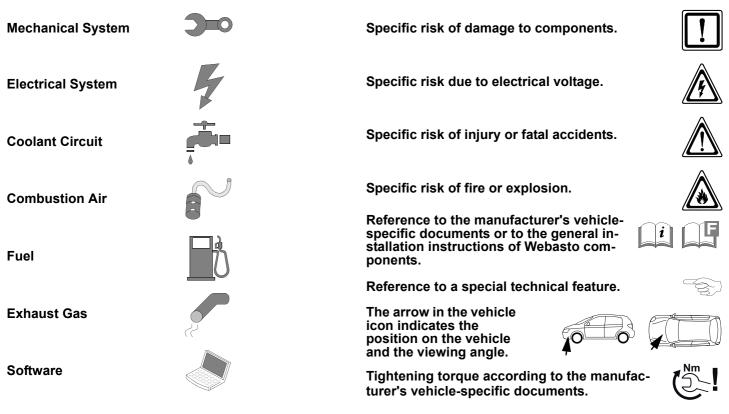
- Tightening torque values of 5x13 heater bolts and 5x11 heater stud bolts = 8Nm.
- Tightening torque value of 5x15 water connection piece retaining plate bolt = 7Nm.
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-the-art-technology.

Explanatory Notes on Document

You will find an identification mark on the outside top

right corner of the page in question to provide you with a quick overview of the individual working steps.

Special features are highlighted using the following symbols:



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Mitsubishi Outlander

Preliminary Work

Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- · Depressurise the cooling system.
- Disconnect the battery.
- Deactivate the hybrid system according to the vehicle manufacturer's workshop manual.
- Remove the air filter completely, together with the intake hose.
- Drain off the coolant.
- Remove the front wheel arch liner in the engine compartment on the left (if present).
- Remove the underride protection.
- Remove the wheel on the right.
- Remove the lateral engine cover on the right side.
- Open the tank fitting service lid (except for 2.0 and 2.4 PHEV).
- Remove the footwell trim on the driver's and front passenger's sides.
- Remove the instrument panel trim on the driver's side.

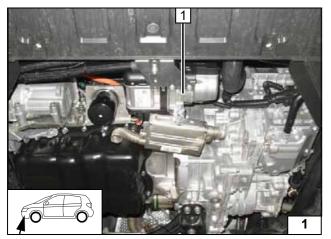


Only carry out the following steps during the corresponding installation sequence:

• Dismantle the tank as per the manufacturer's instructions (only in case of 2.0 and 2.4 PHEV).

Heater

- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.



Heater Installation Location

1 Heater

Installation location

i |

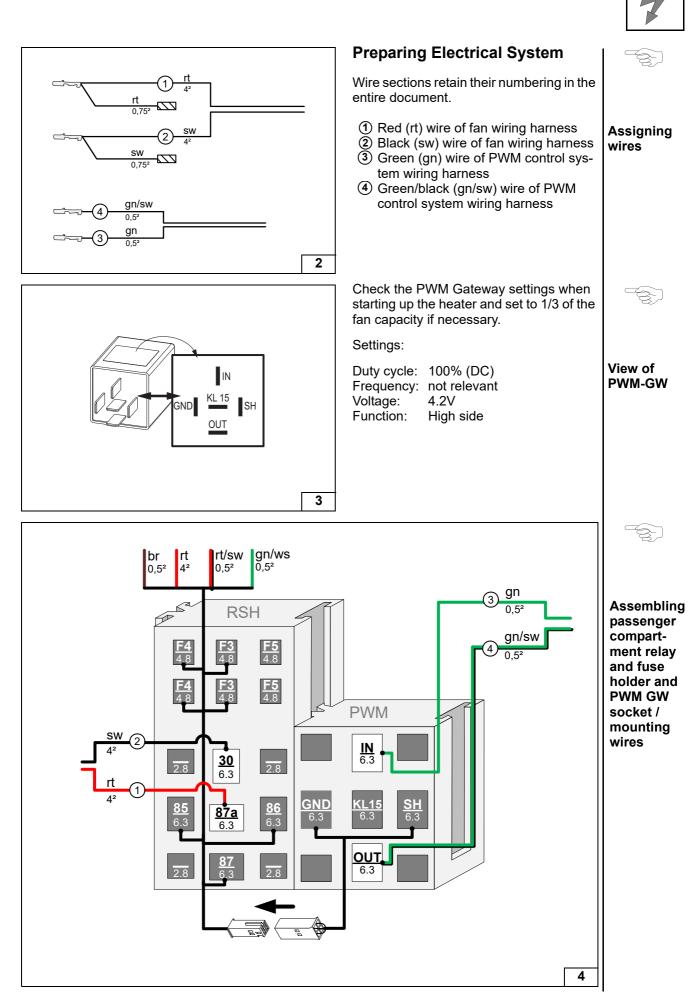
i

O

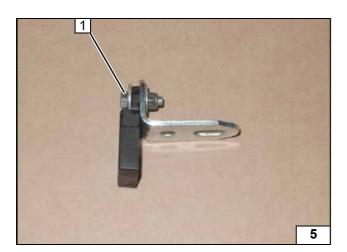


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1 M5x16 bolt, large diameter washer, engine compartment fuse holder retaining plate, angle bracket, large diameter washer, nut

> Installing angle bracket



Electrical System of 2.0 MIVEC

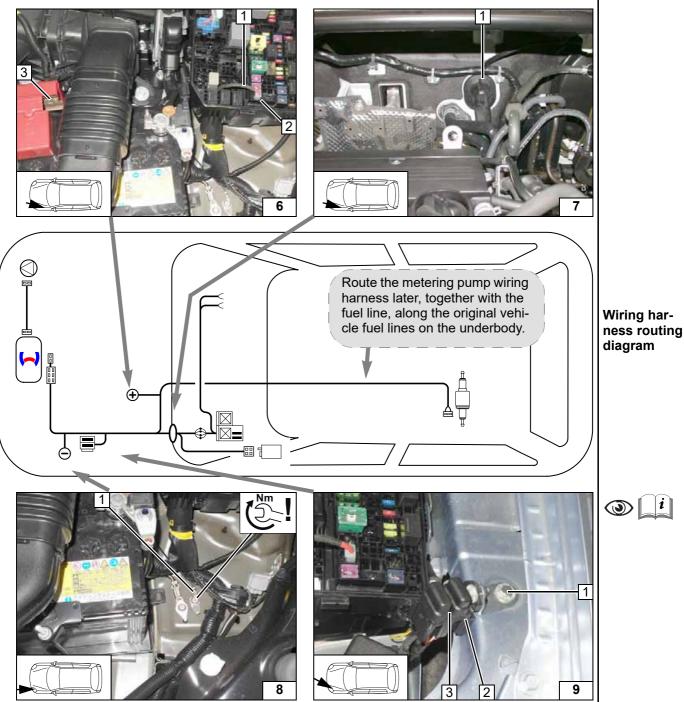
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Positive wire

- Positive wire
 Female connector, housing on free socket of terminal 30+ (check if 30+ of positive battery terminal 3 fits.)
- 3 Positive battery terminal

Wiring harness pass through

1 Protective rubber plug



Earth wire

1 Earth wire on original vehicle earth support point

Engine compartment fuse holder

- 1 M6x20 bolt, large diameter washer, premounted angle bracket, existing hole, flanged nut
- 2 Fuse holder retaining plate
- 3 Fuses F1-2



Electrical System for 2.0 / 2.4 MIVEC PHEV

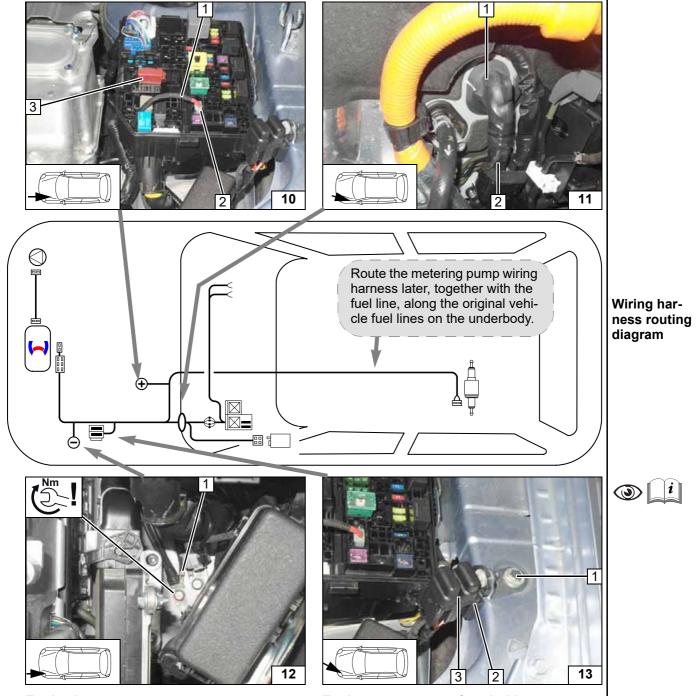
!

Positive wire1 Positive wire

- Female connector, housing on free socket of terminal 30+ (check if 30+ of positive support point 3 fits.)
- 3 Positive support point

Wiring harness pass through

- 1 Protective rubber plug
- 2 Heater wiring harnesses, control element



Earth wire

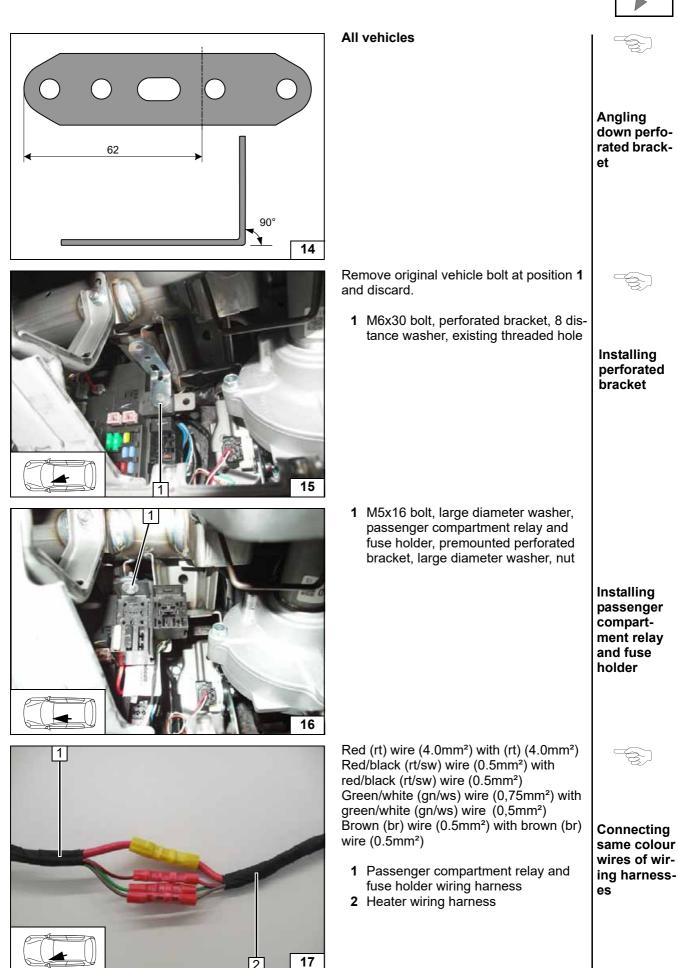
1 Earth wire on original vehicle earth support point

Engine compartment fuse holder

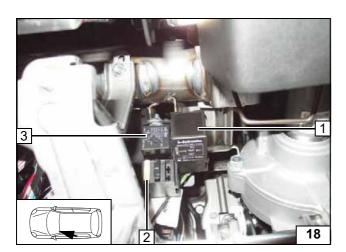
- 1 M6x20 bolt, large diameter washer, premounted angle bracket, existing hole, (underneath a cover if necessary), flanged nut
- 2 Fuse holder retaining plate3 Fuses F1-2

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Route fan wiring harness and PWM con-trol wiring harness to the right side of the vehicle.

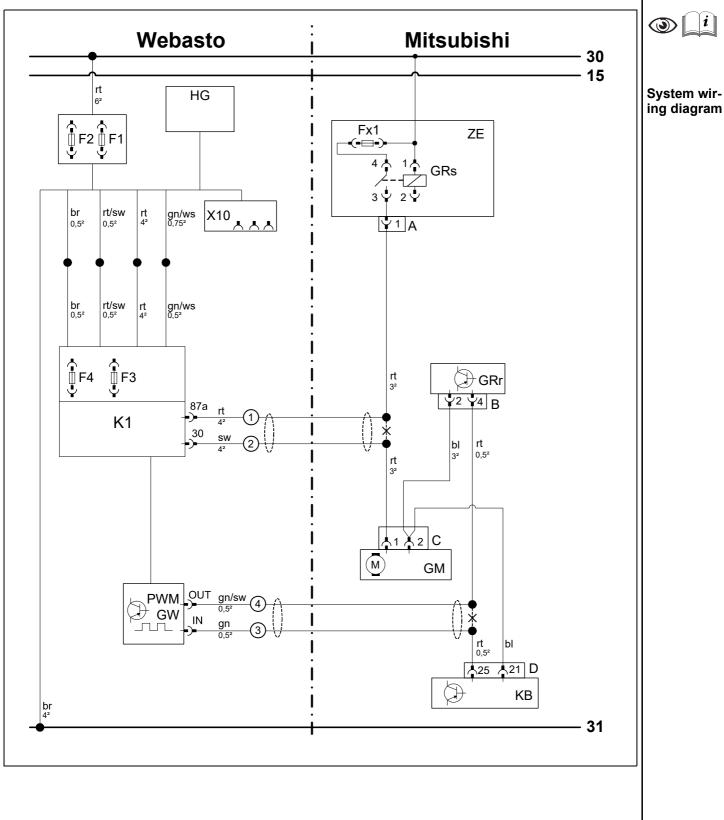
- 1 PWM GW
- 2 25A fuse F43 Relay K1



Mounting PWM GW, re-lay K1 and fuse F4



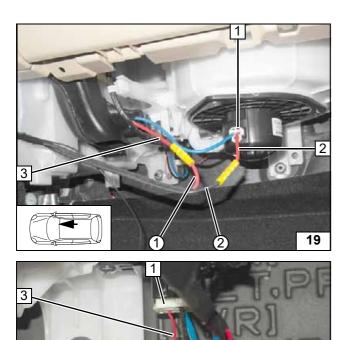
Fan Controller





Legend

Webasto components		Vehicle components		Colo	ours and symbols
HG	TT-Evo heater	ZE	Central electrical box	rt	red
F1	20A fuse	Fx1	30A fuse	WS	white
F2	30A fuse	GRs	Fan relay	SW	black
X10	4-pin socket of control element	А	1-pin connector of ZE	br	brown
		GRr	Fan controller	gn	green
F3	1A fuse	В	4-pin connector of GR	bl	blue
F4	25A fuse	GM	Fan motor		
K1	Fan relay	С	2-pin connector of GM		
PWM	Pulse width modulator	KB	A/C control panel		
GW		D	32-pin connector of KB		
PWM (GW settings:				
Duty c	ycle: 100% (DC)				
Freque	ency: not relevant				
Voltag	e: 4.2V			Х	Cutting point
Function: High side				Wirir	ng colours may vary.



Produce all following electrical connections as shown in the system wiring diagram.

- 1 Fan motor connector C
- 2 Red (rt) wire from connector C/ pin 1 of fan motor
- **3** Red (rt) wire from connector A/ pin 1 of central electrical box
- 1 Red (rt) wire from K1/87a of fan wiring harness
- ② Black (sw) wire from K1/30 of fan wiring harness
- 1 Connector B of fan controller
- 2 Red (rt) wire from connector D/ pin 25 of A/C control panel
- **3** Red (rt) wire from connector B/ pin 4 of fan controller
- ③ Green (gn) wire from PWM GW/ IN of PWM control wiring harness
- ④ Green/black (gn/sw) wire from PWM GW/ OUT of PWM control wiring harness



Connect-

tor

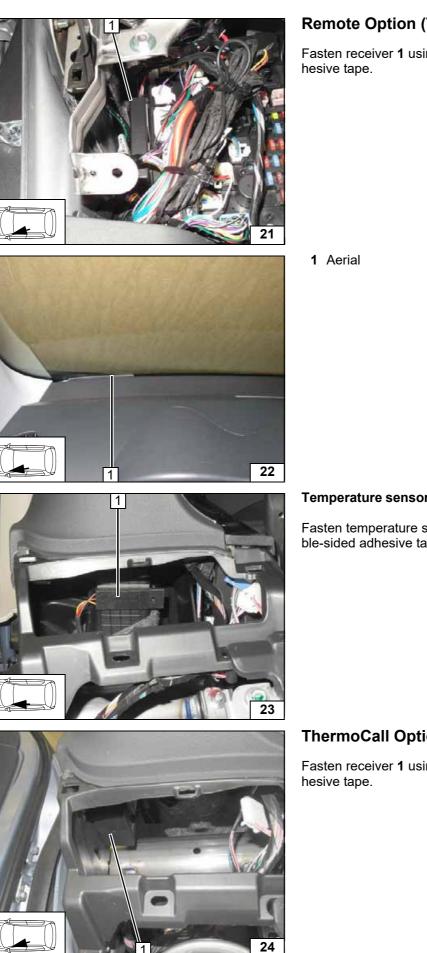
ing fan mo-

Connecting fan controller

4

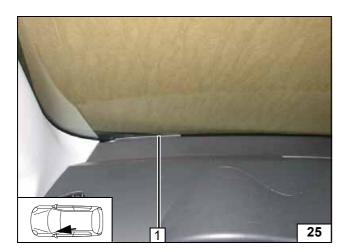
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Remote Option (Telestart) i Fasten receiver 1 using double-sided ad-Installing receiver Installing aerial Temperature sensor only for T100 HTM Fasten temperature sensor 1 using double-sided adhesive tape. Installing temperature sensor **ThermoCall Option** *i*] ٢ Fasten receiver 1 using double-sided ad-Installing receiver

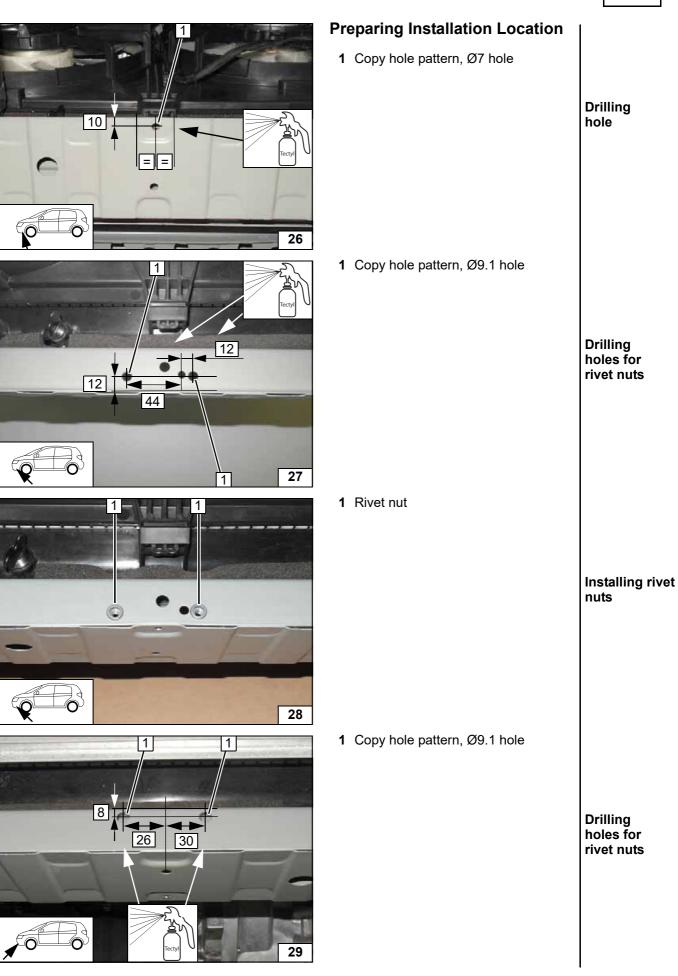




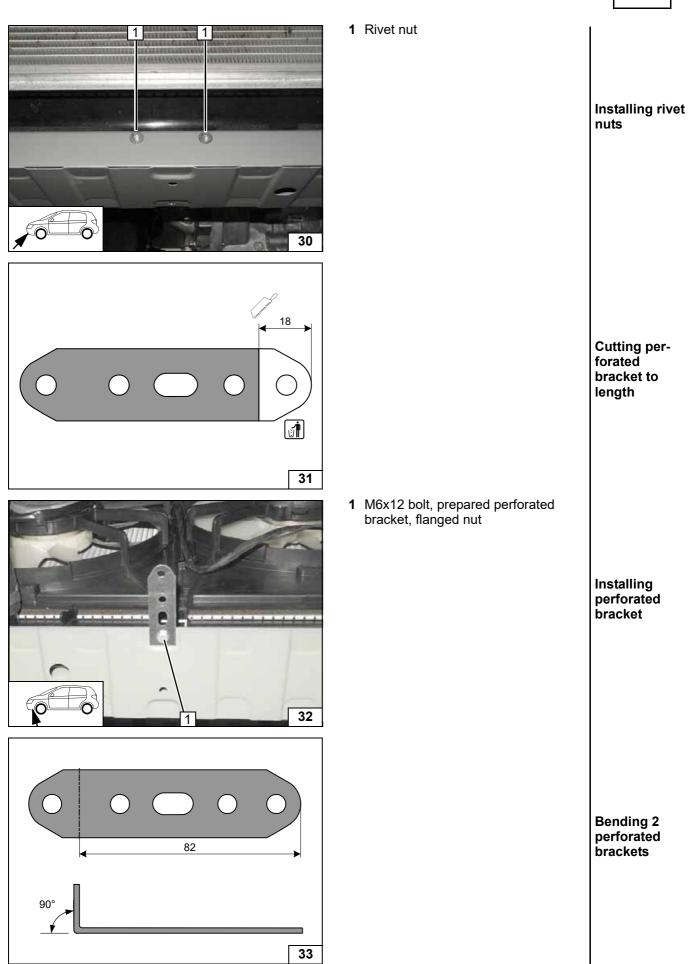
1 Aerial (optional)

Installing aerial





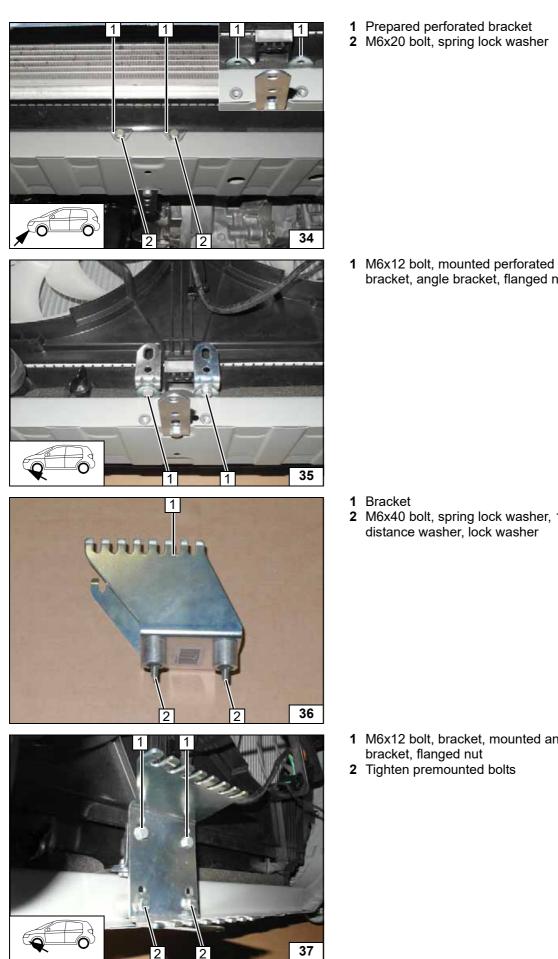






Installing per-forated brack-

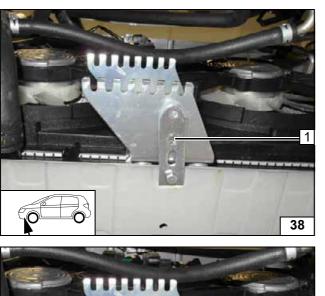
ets

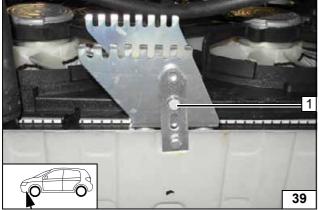


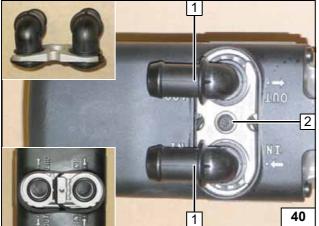
bracket, angle bracket, flanged nut Installing an-gle bracket 2 M6x40 bolt, spring lock washer, 15 distance washer, lock washer Preparing bracket 1 M6x12 bolt, bracket, mounted angle

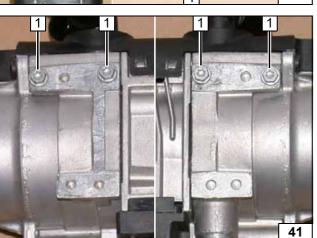
> Installing bracket





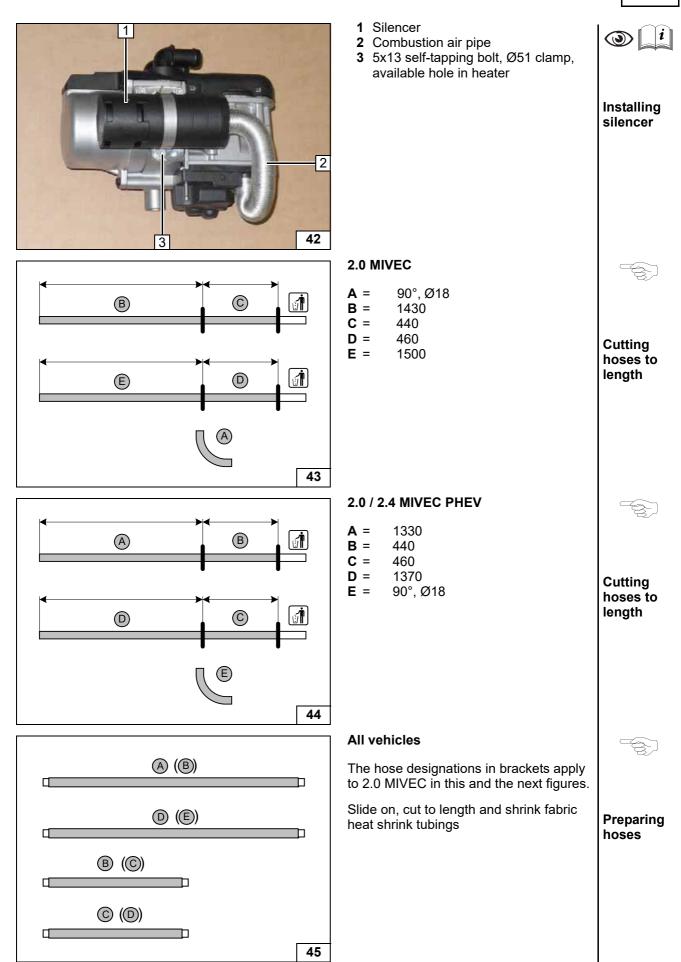






1 Copy hole pattern, Ø7 hole	
	Hole in bracket
1 M6x12 bolt, flanged nut	Installing bracket
Preparing Heater	
 Water connection piece, sealing ring 5x15 self-tapping bolt, retaining plate of water connection piece 	Installing water con- nection piece
Screw 5x13 self-tapping bolts 1 into exist- ing holes by a maximum of 3 thread turns.	
	Premount- ing bolts loosely





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B (C)

C (D)

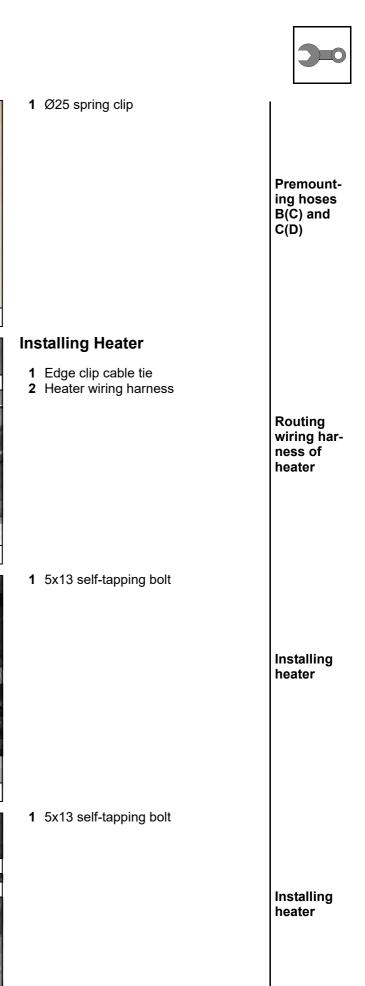
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1



49

Mitsubishi Outlander



Fuel



Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

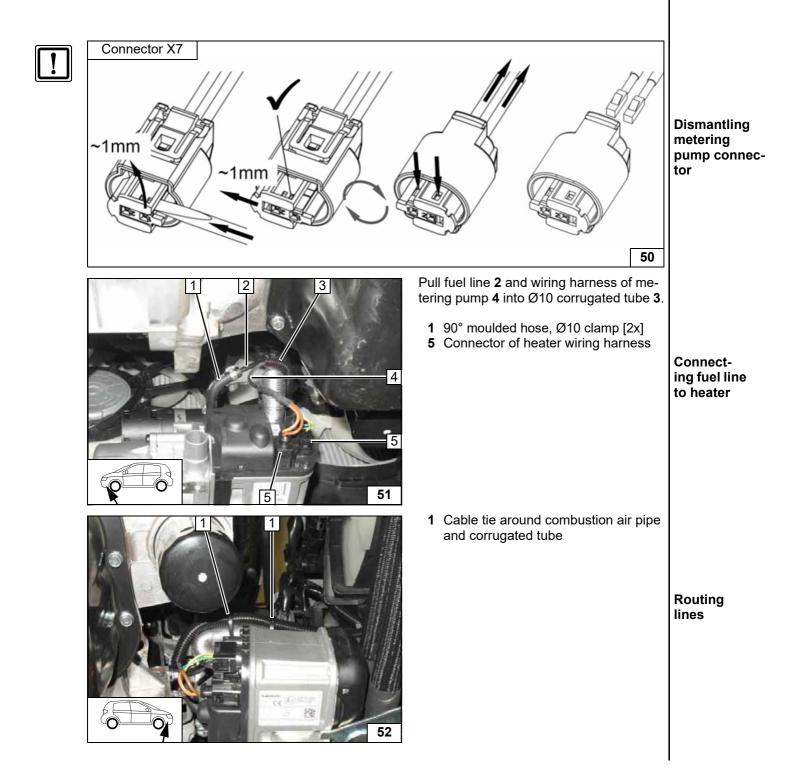
🕙 Catch

Catch any fuel running off in an appropriate container.

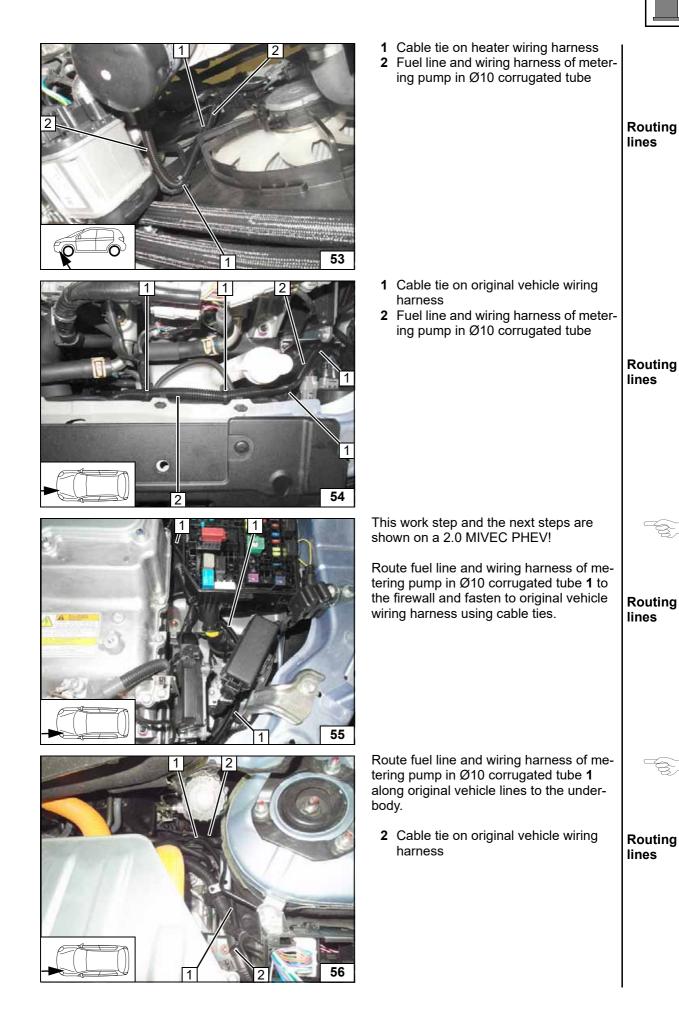


Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

The fuel line and wiring harness are routed to the metering pump as shown in the wiring harness routing diagram.









Routing lines

Cutting to length, drill-

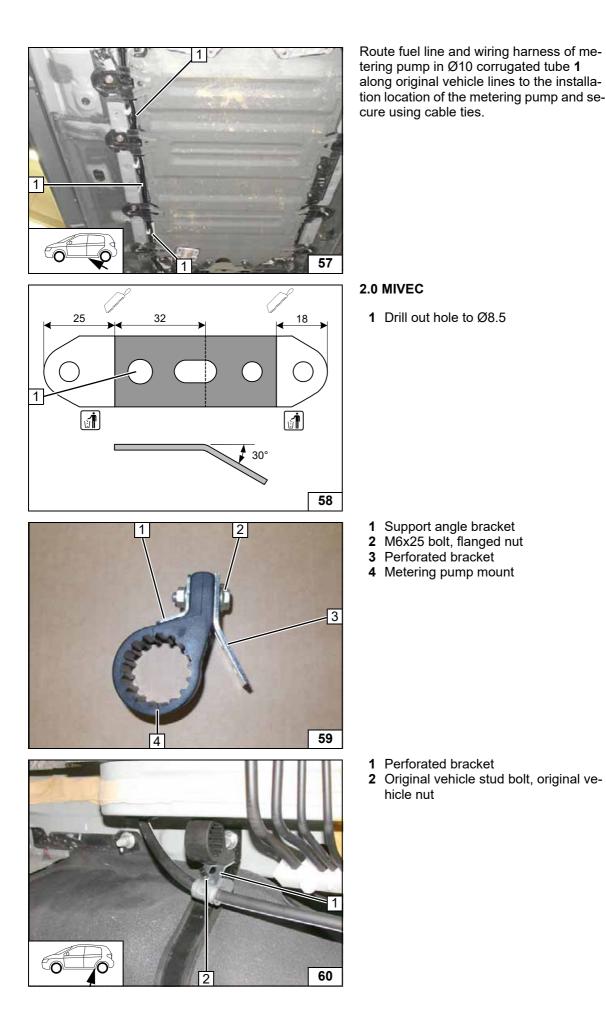
perforated bracket

Premount-

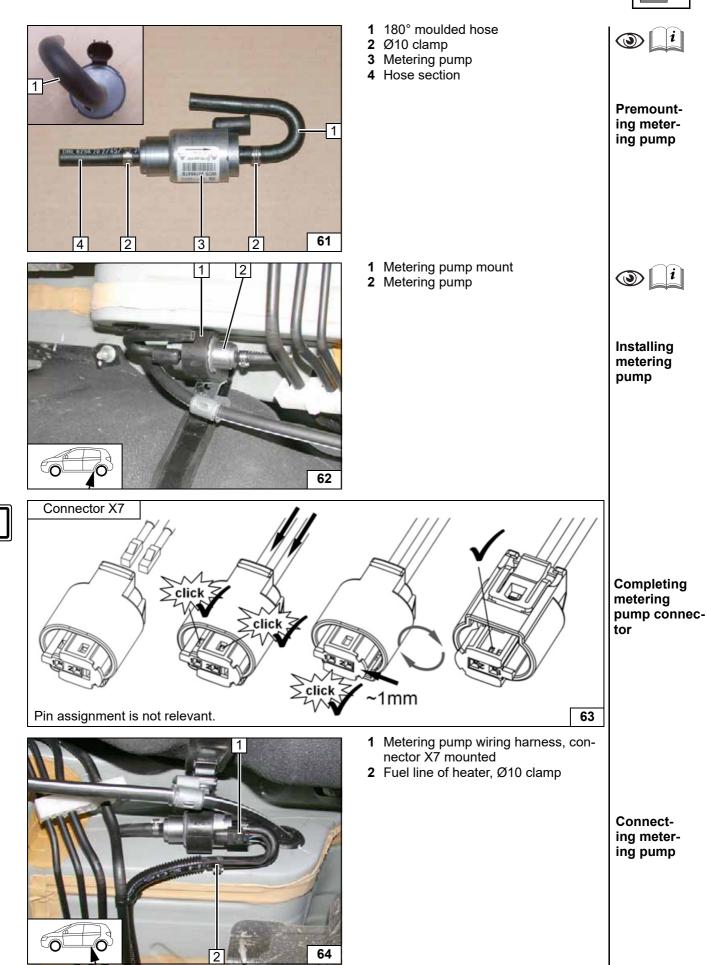
ing metering pump mount

Mounting metering pump mount

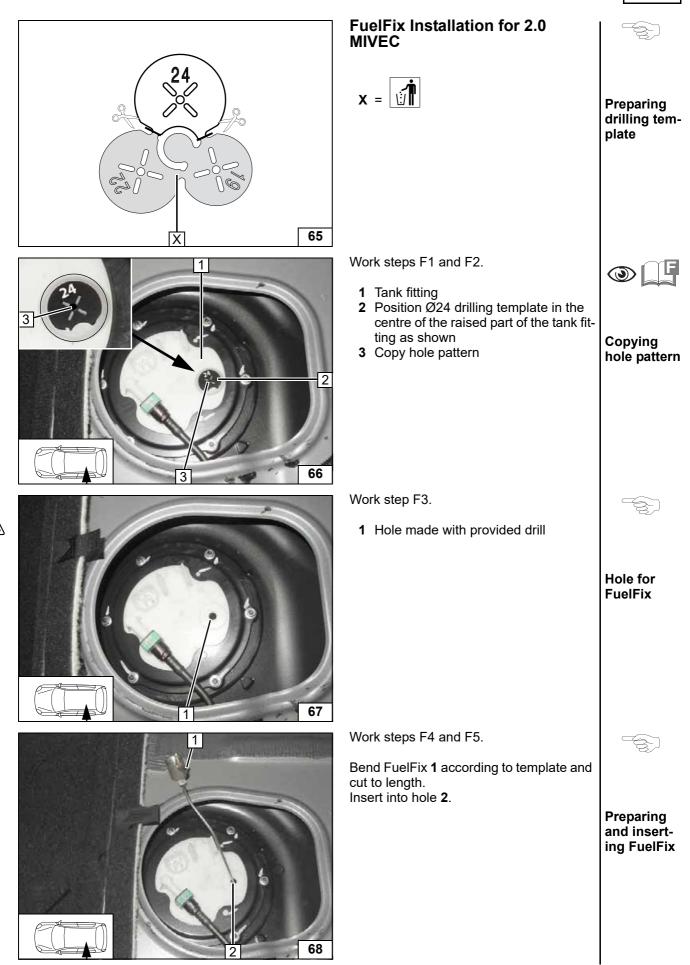
ing and bending









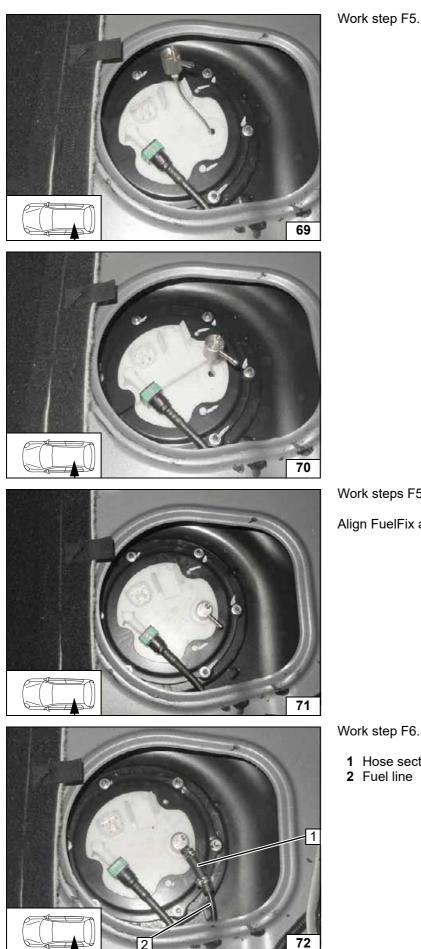


1



Inserting FuelFix

Inserting FuelFix



Work steps F5.3 and F5.4. Align FuelFix as shown.

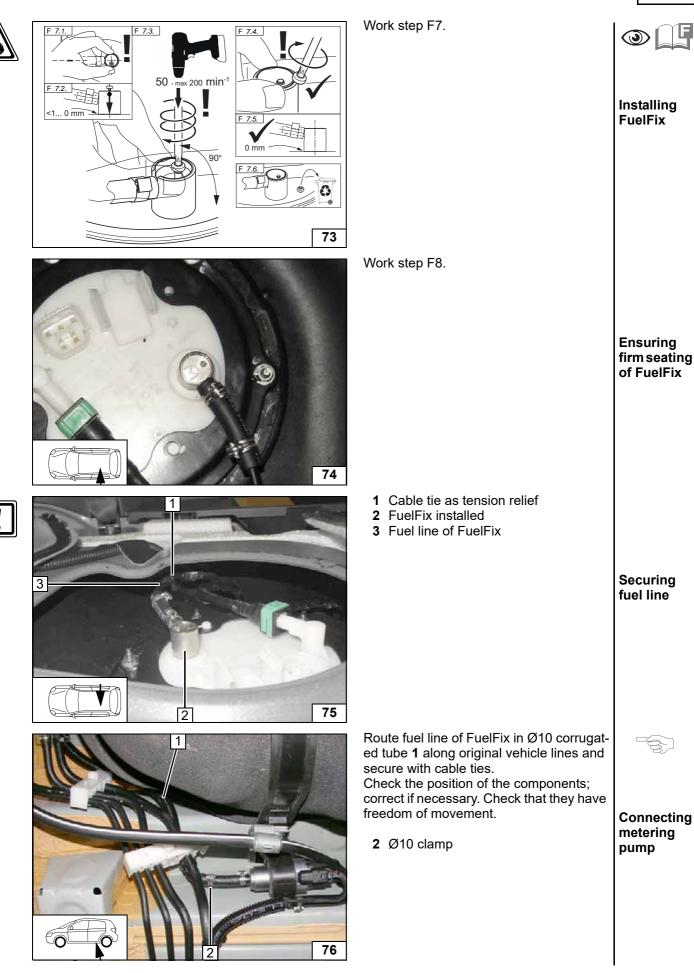
Aligning FuelFix

Work step F6.

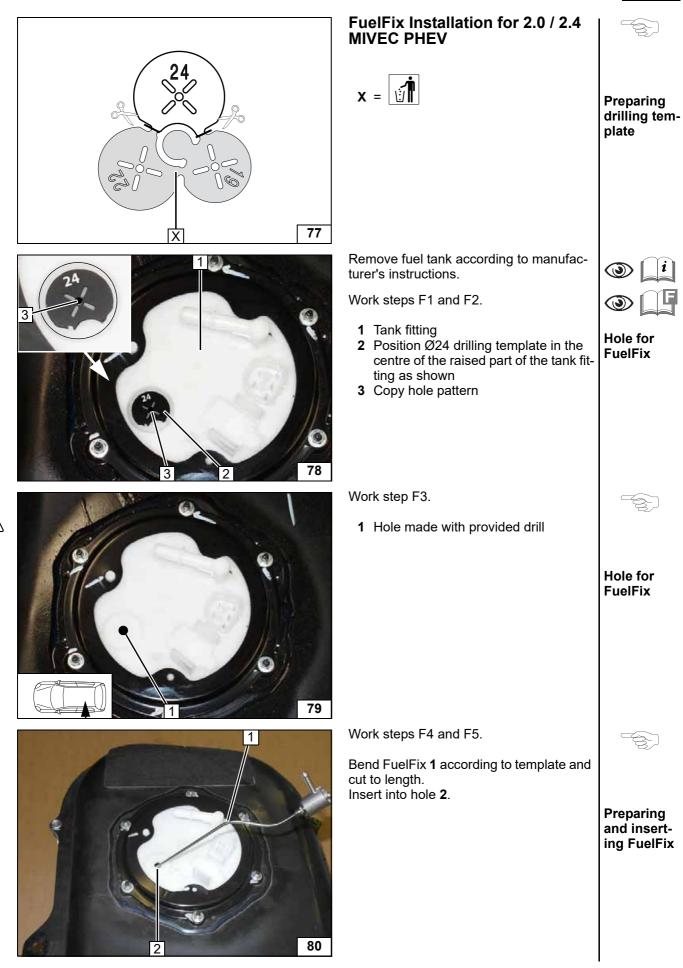
- 1 Hose section, Ø10 clamp [2x]
- 2 Fuel line

Connecting fuel line



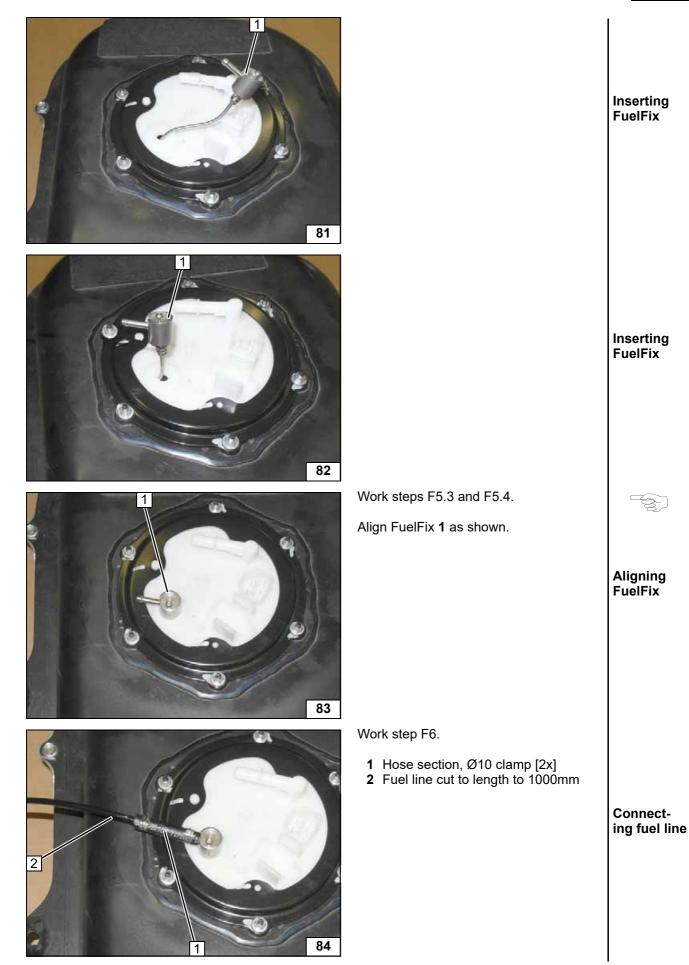




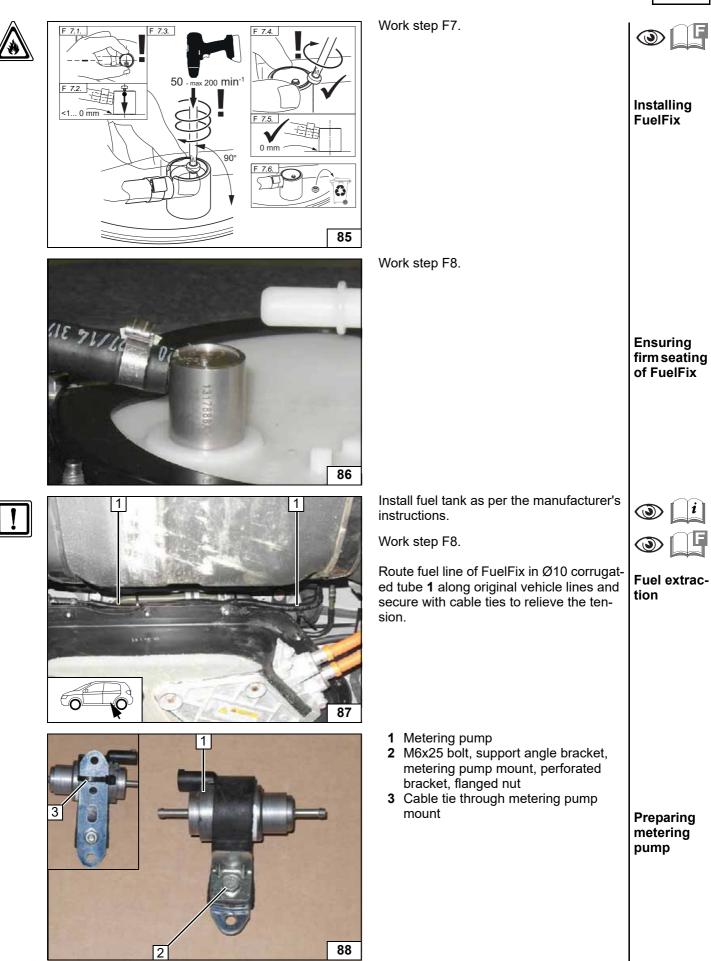


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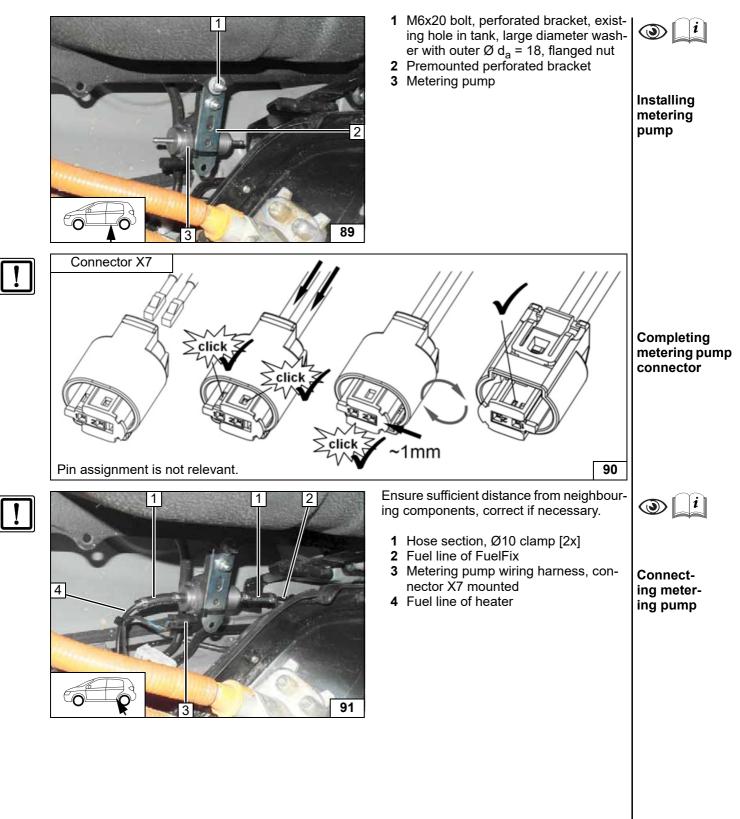












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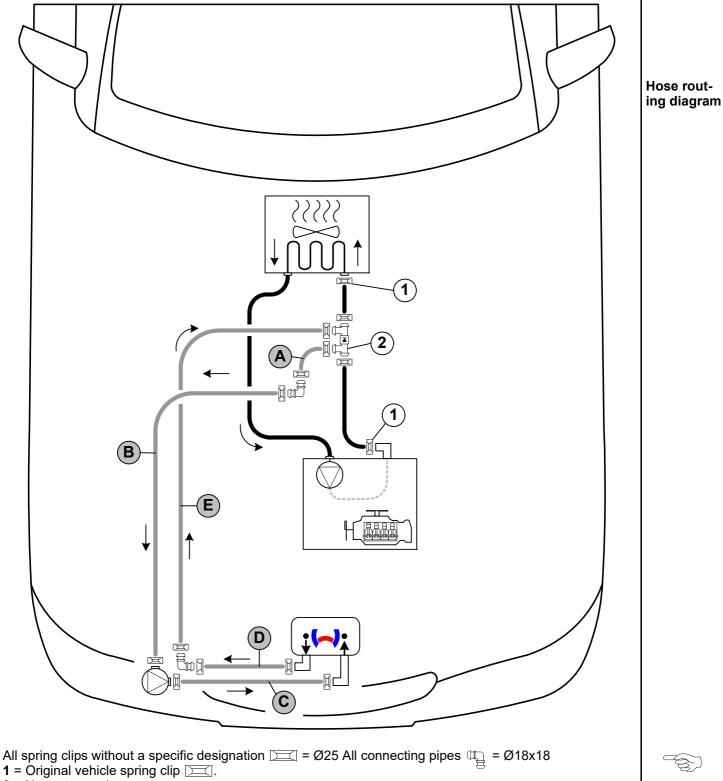


Coolant Circuit for 2.0 MIVEC



Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses.

The connection should be modelled on a 'parallel' circuit and based on the following diagram:



2 = Non return valve

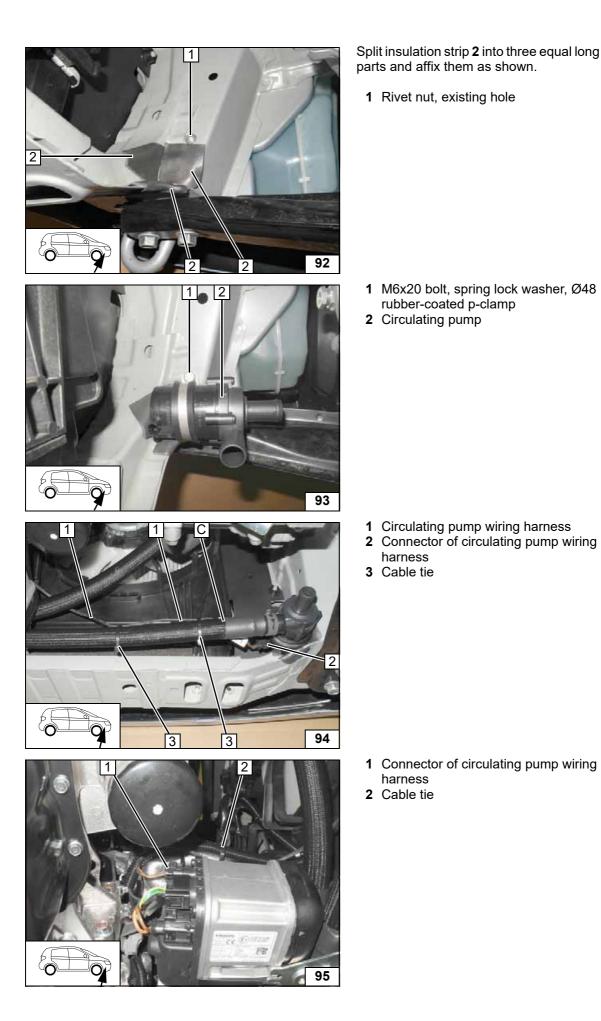


Installing rivet nut

Installing circulating pump

Mounting wiring harness of circulating pump and hose C

Installing wiring harness of circulating pump





Positioning / premounting hose C

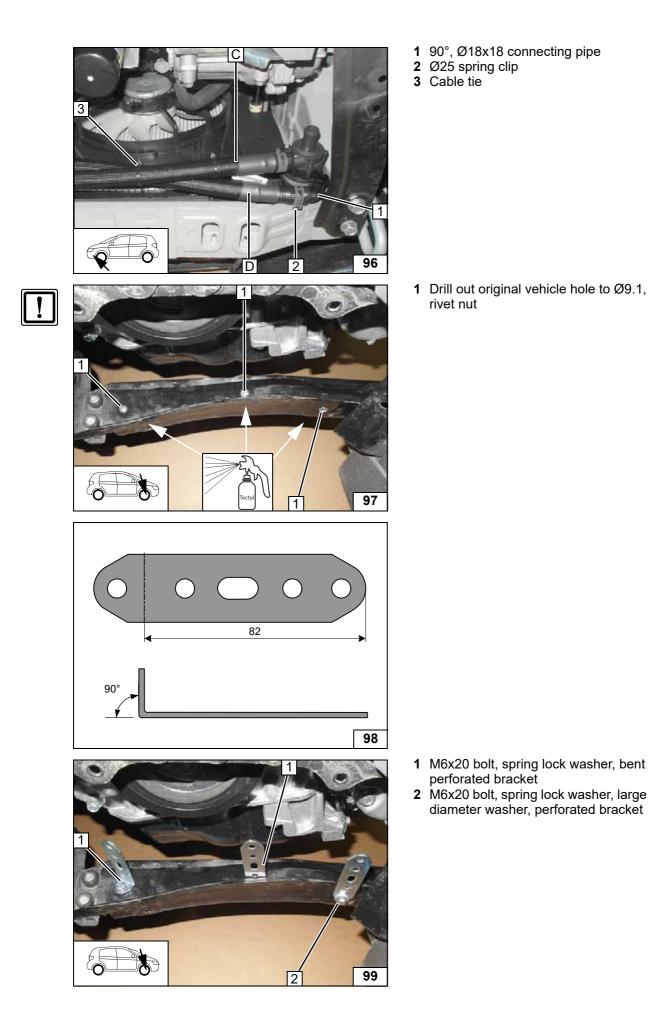
Installing rivet nut

Bending 2 perforated

Installing perforated brack-

ets

brackets





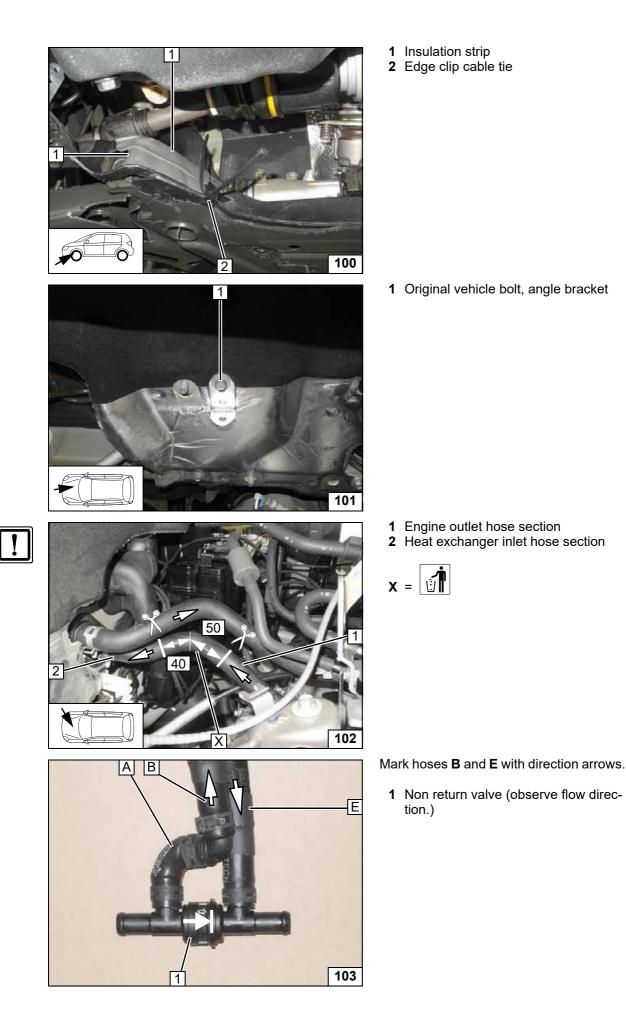
Installing edge clip cable tie and in-

sulation strip

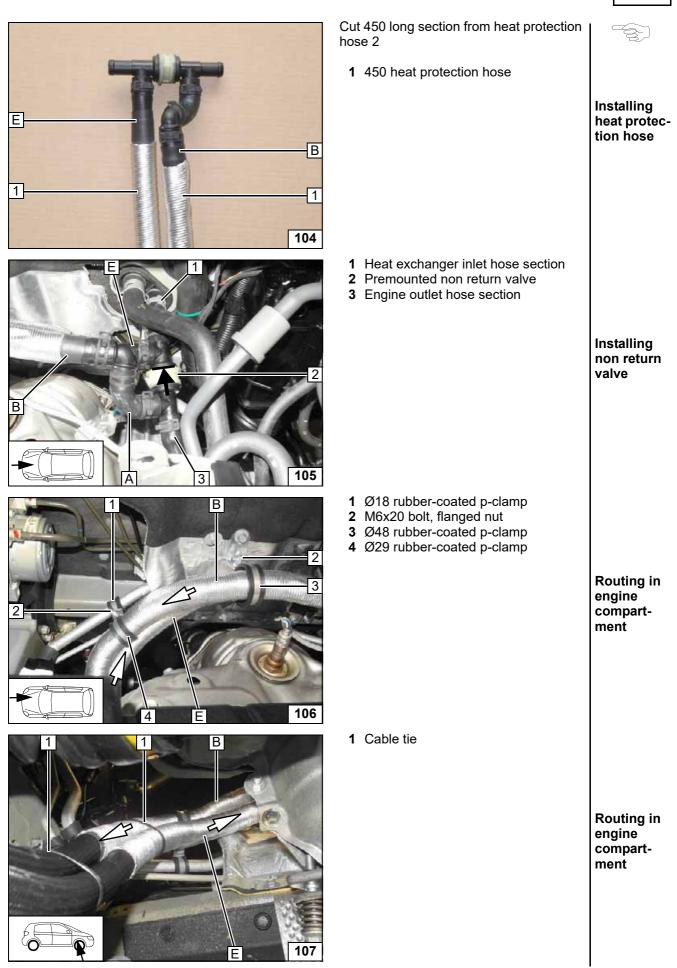
Installing angle bracket

Cutting point

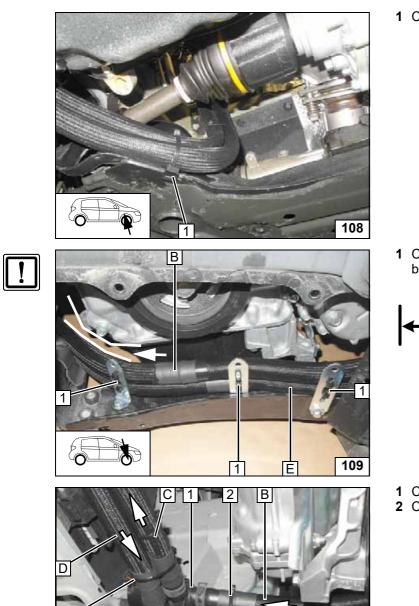
Premounting non return valve











1 Close edge clip cable tie Routing in engine compart-ment 1 Cable tie on premounted perforated brackets Fastening hoses, checking distance to engine Circulating pump
 Cable tie Connecting circulating pump

110

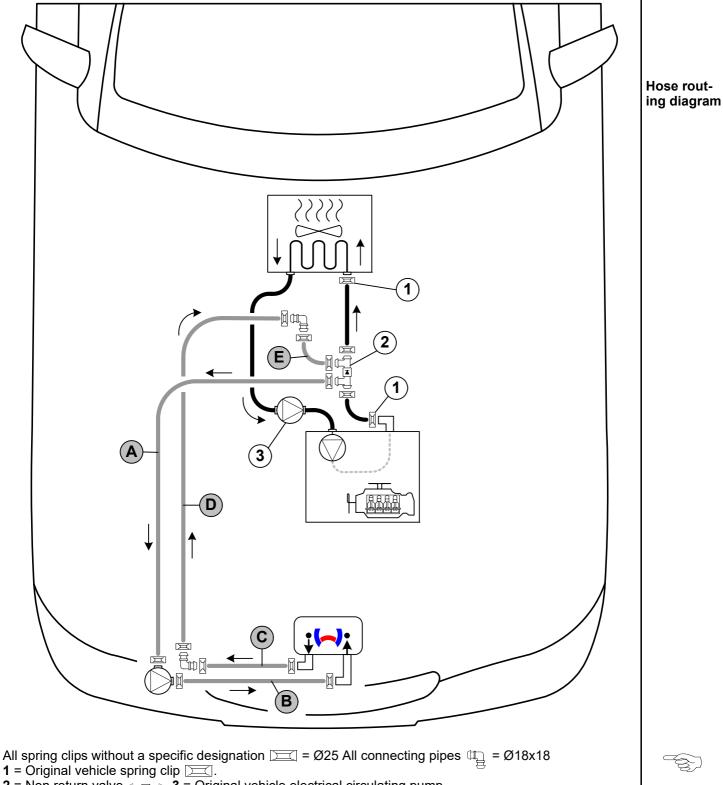


Coolant Circuit for 2.0 / 2.4 MIVEC PHEV



Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses.

The connection should be modelled on a 'parallel' circuit and based on the following diagram:



2 = Non return valve (1 + 1). **3** = Original vehicle electrical circulating pump.

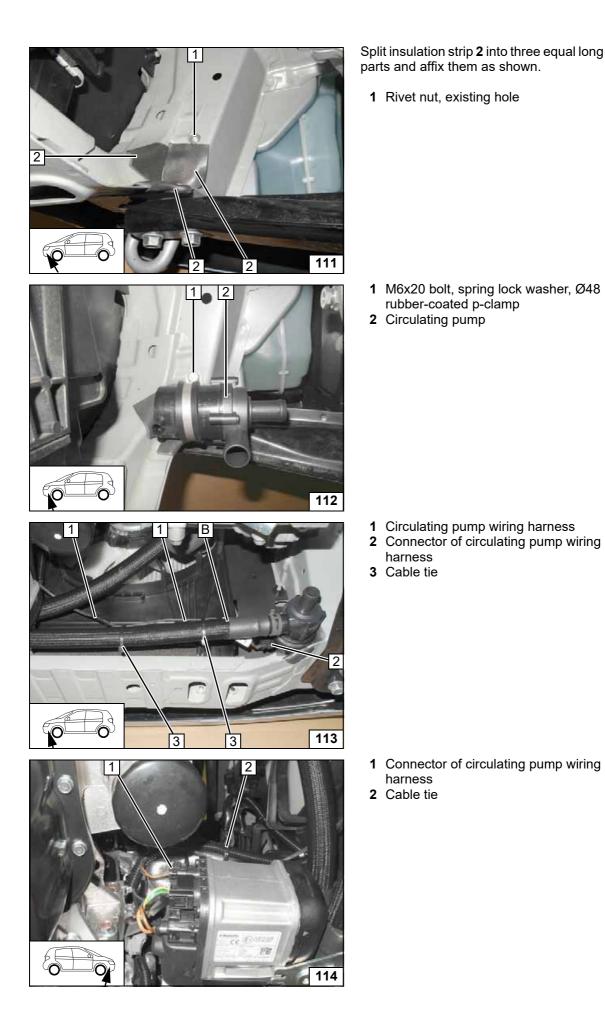


Installing rivet nut

Installing circulating pump

Installing wiring harness of circulating pump and hose B

Installing wiring harness of circulating pump





Positioning / premounting hose C

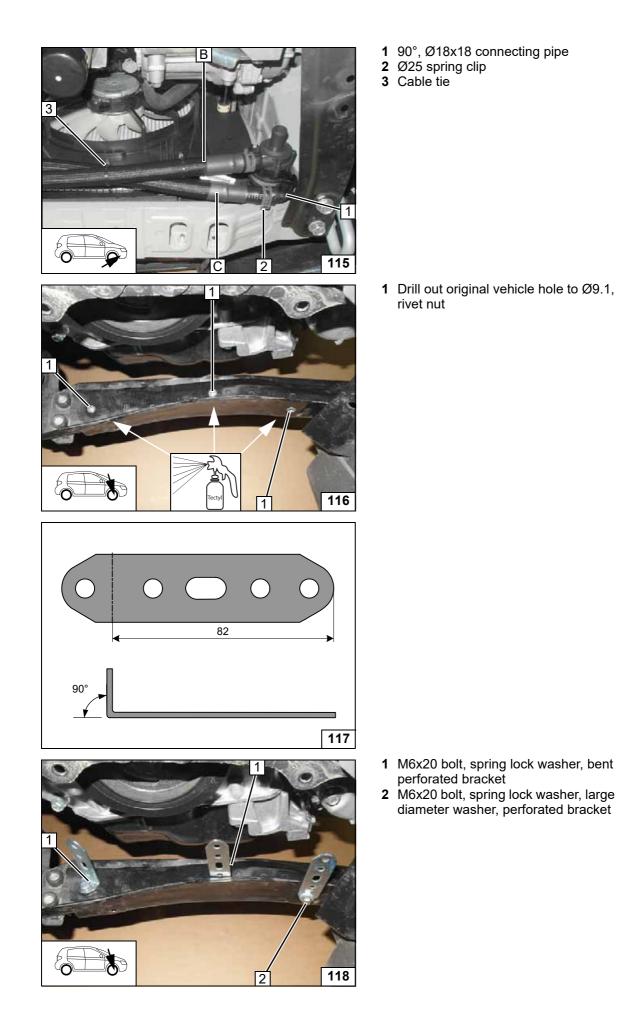
Installing rivet nut

Bending 2 perforated

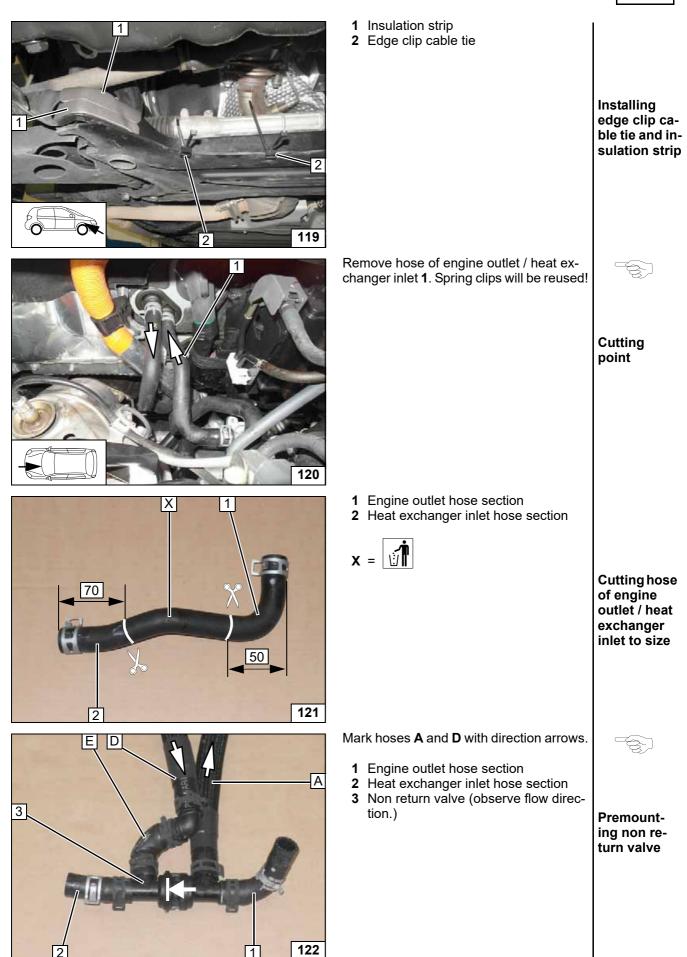
Installing perforated brack-

ets

brackets









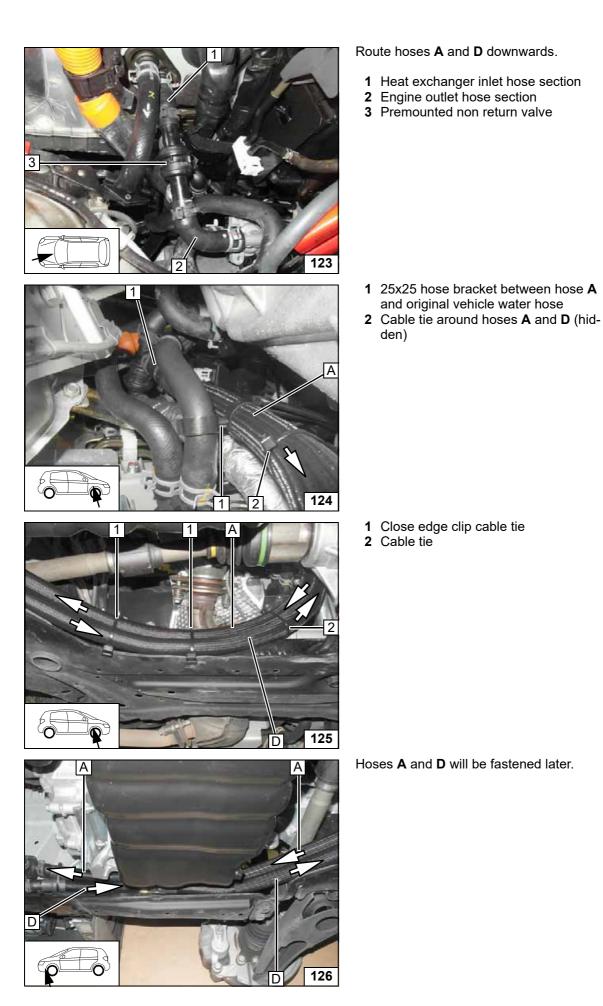
Installing non return

Routing in engine compartment

Routing in engine compartment

Routing in engine compartment

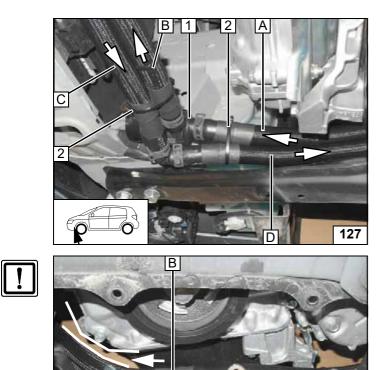
valve





Circulating pump connection /

connecting hoses D and C



B

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- Circulating pump
 Cable tie
- 1 Cable tie on premounted perforated brackets

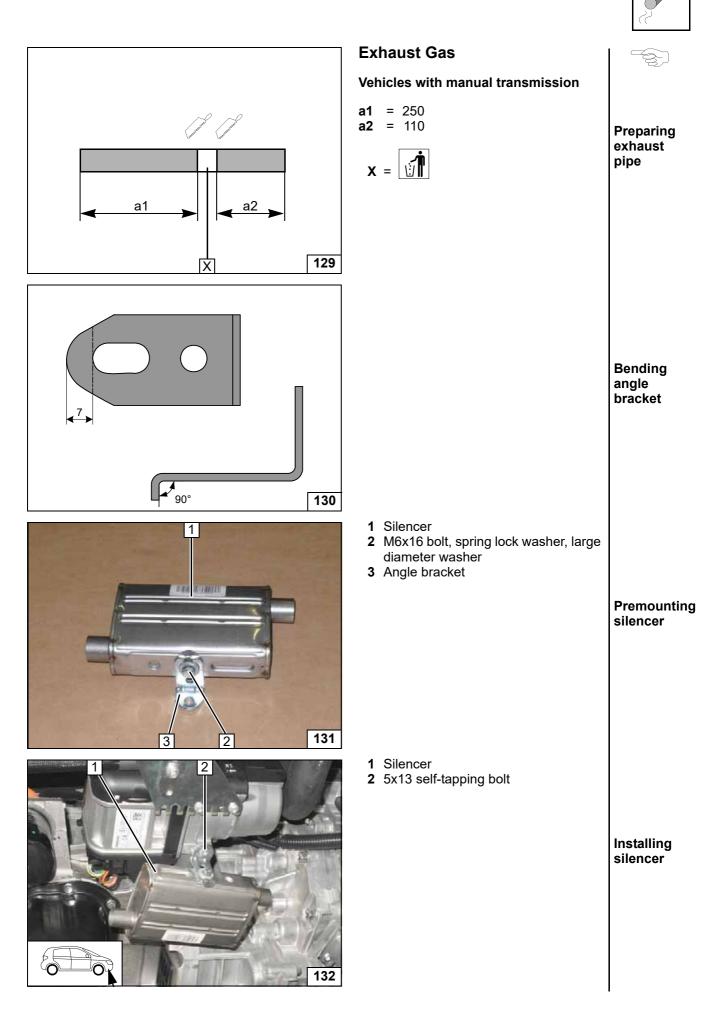


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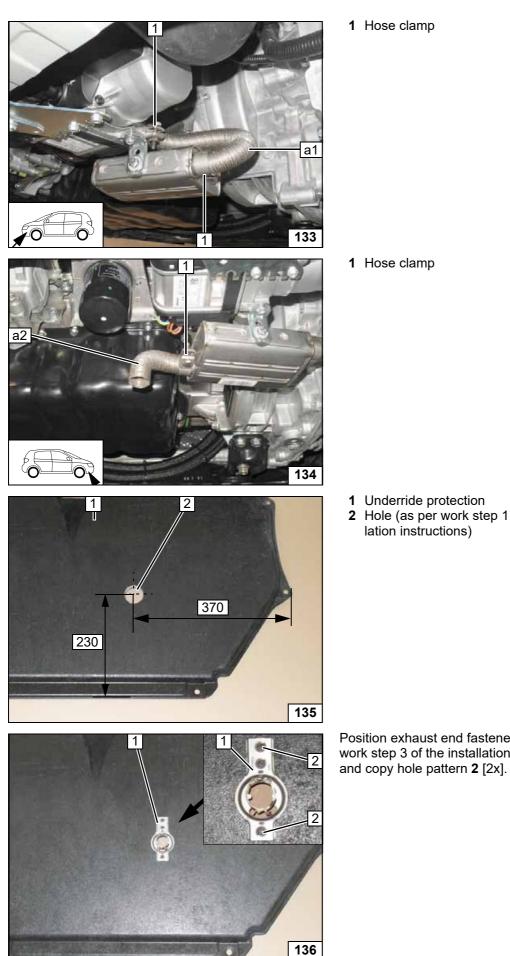
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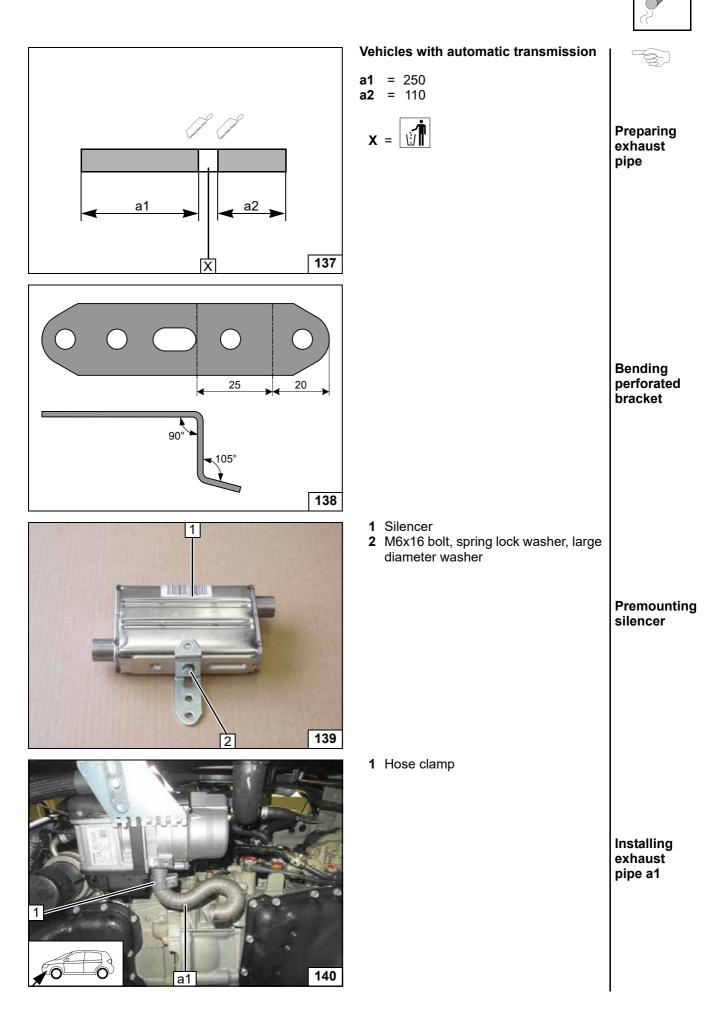
Fastening hoses, checking distance to engine



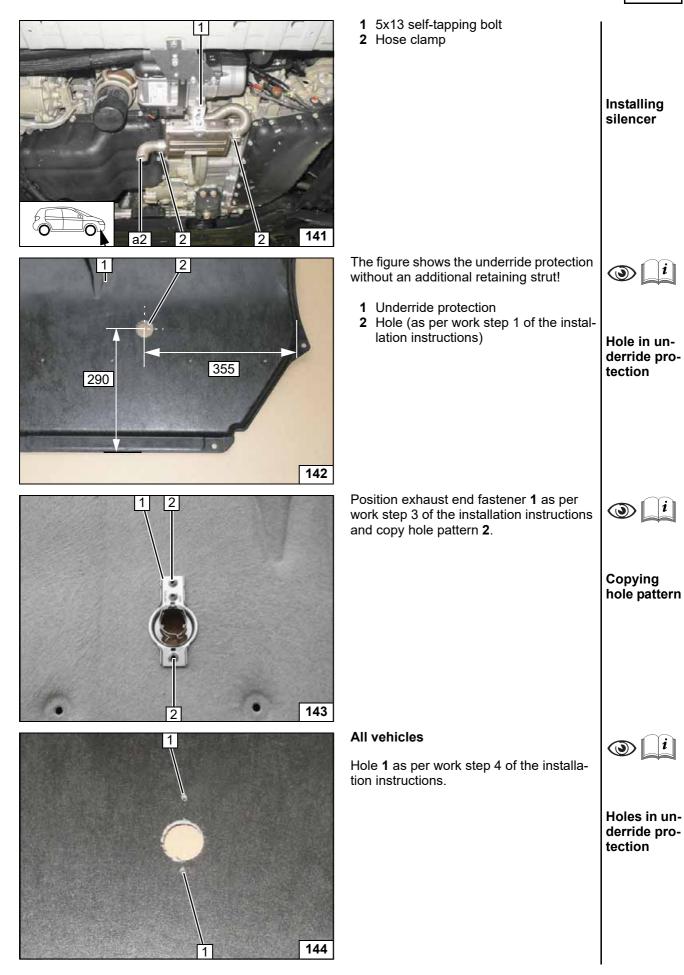




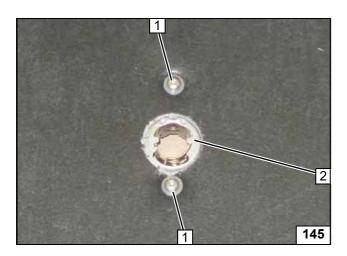
Installing exhaust pipe a1 Installing exhaust pipe a2 i 2 Hole (as per work step 1 of the instal-Hole in underride protection Position exhaust end fastener 1 as per *i*] work step 3 of the installation instructions Copying hole pattern







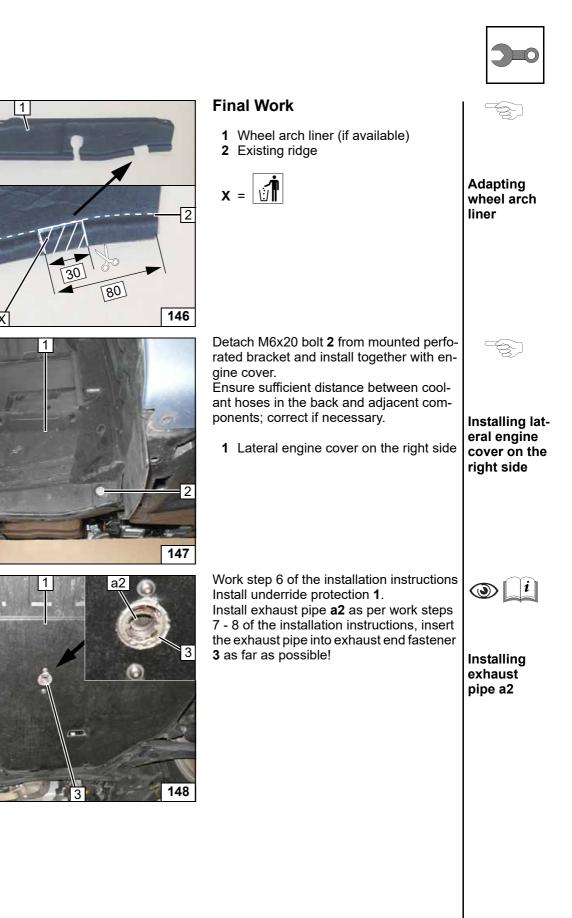




- 1 5x13 self-tapping screw, large diameter washer, as per work step 5 of the installation instructions
- 2 Exhaust end fastener



Installing exhaust end fastener







Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back loose lines.

Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K).



Activation of the hybrid system

The hybrid system is to be re-activated prior to connecting the 12V vehicle battery.

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's instructions.
- Program MultiControl CAR, teach Telestart transmitter.
- Make settings on the A/C control panel according to the 'operating instructions'.
- Place the 'Switch off parking heater before refuelling' caution label near the filler point.
- For initial start-up and function check, please see installation instructions.



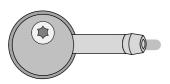


Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com



FuelFix Template

Top view



A A A A A A A A A A A A A A A A A A A		



100mm

Scale 1:1

Compare size of printout with dimension lines. Maximum permitted tolerance 2%.

Set the printer settings to 'no margin' or 'minimise margins' and 100% of the normal size.

100mm

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Operating Instructions for 2.0 MIVEC

Please remove page and add to the vehicle operating instructions.

Note:

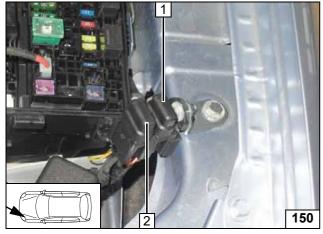
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

For instructions on deactivation, please refer to the operating instructions of the vehicle.

Before parking the vehicle, make the following recommended settings on the A/C control panel:





1 1A control element fuse F3

1 Set temperature on both sides to '29°C'

1 30A main fuse F2 of passenger compartment

2 Air outlet to windscreen

2 25A fan fuse F4

2 20A heater fuse F1



I

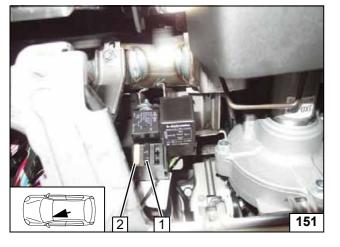
i



A/C control panel

Engine compartment fuses

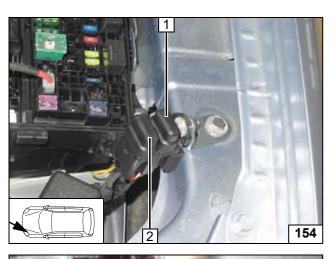
Passenger compartment fuses

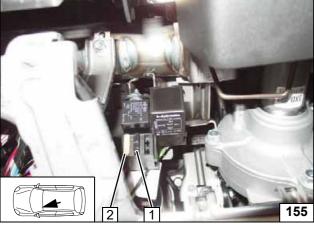




Operating Instructions for 2.0 / 2.4 MIVEC PHEV

Please remove page and add to the vehicle operating instructions. Note: We recommend matching the heating time to the driving time. Heating time = driving time Example: For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min. Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation. *i* | ۲ For instructions on deactivation, please refer to the operating instructions of the vehicle. Note: The Webasto heater can be used as parking heater while driving so that the vehicle can be driven in EV mode only, even at outside temperatures below 15°C, without starting the combustion engine. Before parking the vehicle, make the following recommended settings on the A/C control panel: 1 Set temperature on both sides to approx. '23°C' 1 1 2 Air outlet to windscreen and footwell Set the display to "OFF" (see next figure), to prevent the combustion engine from starting at the beginning of the drive. A/C control 23 panel 152 Note: The air outlet distribution also functions in the 'OFF' position. 1 Set display to 'OFF' A/C control panel 153





The figure shows a vehicle without wheel arch liner ! |

- **1** 30A main fuse F2 of passenger compartment**2** 20A heater fuse F1

Engine com-partment fus-. es

1 1A control element fuse F3 2 25A fan fuse F4

> Passenger compartment . fuses